## LANGUAGE ARTS

### Reading Process

**Read 3rd Grade Texts Fluently & with Understanding**
- Use many strategies to read & comprehend:
  - Letter sounds
  - Related words
  - Adjust reading speed
  - Self correct
  - Summarize main ideas

- Increase vocabulary through:
  - Reading, listening & interacting
  - Reference materials
  - Knowledge of related words

- Read aloud with rhythm, pace & intonation

### Reading Analysis

**Understand, Analyze & Interpret What’s Read**
- Make connections between what’s read & personal experience & knowledge
- Actively read a variety of text (*fiction, non-fiction, poetry, drama*)
- Set a purpose
- Preview the text & make predictions
- Ask questions
- Analyze what is read (*problem - solution, cause - effect*)
- Recognize character types (*hero, villain*)
- Discuss similarities & differences of events & characters in different books
- Draw conclusions about characters & events
- Locate information & answer questions

### Writing

**Write Clearly and Effectively**
- Plan & compose fiction, non-fiction, poetry & drama (*stories, reports, essays, letters, journals*)
- Write for Different Purposes & Audiences
  - Describe – Narrate – Express
  - Explain – Persuade – Analyze
- Revise to:
  - Clarify ideas
  - Add descriptive words & phrases
  - Sequence ideas & events
  - Combine short, related sentences
  - Strengthen word choice
- Edit for:
  - Penmanship – Spelling – Grammar
  - Capitalization – Punctuation
  - Sentence type variety
- Write responses to different types of text

### Research

**Locate • Gather • Record • Organize • Present**
- Use print & electronic resources to gather information
- Explain choice of materials used
- Use reference materials to support discovery & meaning (*glossary, dictionary*)

### Speaking, Listening & Viewing

**Improve Communication Skills: Reflect & Respond**
- Use speaking type to suit audience & purpose (*describe, narrate, express, explain, persuade, analyze*)
- Present information in a logical & organized manner
- Identify the main point
- Relate topic to own experience & ideas
- Explain & discuss what was learned
- Use correct grammar & word usage
- Use active listening skills
- Follow multi-step instructions

## SOCIAL STUDIES

### People • Events • Cultures • Interactions • Citizenship

#### History
- Describe how the lives & contributions of people in New Mexico have influenced the community & region over time
- Identify & compare elements of a community
- Use information to put historic information in sequence

#### Geography
- Use knowledge of maps & map tools
- Identify ways people change their environment & the impact of those changes (*clear trees, build roads*)
- Describe parts of the earth’s biosystems (*air, land, water, plants, animals*)
- Describe how earth’s features were formed (*mountains, lakes, arroyos*)

#### Civics & Government
- Explain the purposes & functions of local government (*make laws, provide water, roads*)
- Describe how symbols, songs & traditions reflect cultures
- Explain & compare how laws & rules are made (*by local, tribal, national governments*)
- Describe how the majority protects the rights of minorities
- Explain the process & importance of voting
- Explain the importance of cooperation & participation in the classroom & community

#### Economics
- Understand that resources are made into a variety of products
- Recognize that the U.S. has a free enterprise system in which buyers & sellers exchange goods & services
- Understand why people spend & save money
- Understand that people use cash, credit, debit & checks to buy & sell things
**MATHEMATICS**

**Whole Numbers**

**Understand place value, representation & relationships of numbers to 10,000**
- Show an understanding of place value:
  - read, write & model numbers to 10,000
  - compare & order numbers to 1,000
  - recognize a number's position as compared to benchmark numbers (like 10, 50, 100, 500)
- Break apart & recombine numbers:
  
  \[853 = (8 \times 100) + (5 \times 10) + 3; \quad 853 = 900 - 50 + 3\]
- Identify relationships of common factors & multiples (factors of 12 = 1 x 12, 2 x 6, 3 x 4; multiples of 12 are 24, 36... & share factors 2,3,4,6)
- Show an understanding of fractions (as part of a whole, part of a set, location on a number line)
- Use fractions & decimals to represent money (½ dollar is the same as 50¢)

**Addition, Subtraction, Multiplication & Division**
- Correctly select & use addition, subtraction, multiplication & division to solve problems
- Use a variety of models to multiply & divide whole numbers
- Use fractions & decimals to represent money
- Break apart & recombine numbers
- Identify relationships of common factors & multiples
- Show an understanding of fractions
- Use fractions & decimals to represent money

**Algebra**
- Create, describe & extend patterns
  - (11, 12, 14, 17, 21, 26, 32, 39, __, __)
- Show impact of changing variables
  - (increase by 10; 5 x 10 = 50, 15 x 10 = 150, 25 x 10 = 250)
- Explore math properties
  - Commutative: can add or multiply numbers in any order
  - Distributive: separate numbers into parts to make them easier to work with
  - Then adding them together:
    - \[3 x 12 = (3 \times 10) + (3 \times 2) = 30 + 6 = 36\]
- Zero: anything x 0 = 0
- Proportional: 4 tops cost 80c, so 1 top costs 20c
- Find missing variable
- Model problem solving (using objects, pictures, graphs, tables & equations)
- Describe relationships of quantities (math expressions, equations, inequalities)

**Geometry**
- Use sets of 2 numbers (ordered pair) to:
  - Identify points on a graph
  - Create paths between points
  - Measure distances on a grid
- Use grid system to map real locations
- Build & draw geometric objects
- For 2-dimensional shapes:
  - Describe polygons (multi-sided shapes)
  - Predict & describe flipping, turning, etc.
  - Identify right angles (square corners)
- For 2- & 3-dimensional shapes:
  - Identify lines of symmetry
  - Recognize 2-D patterns to 3-D shapes
- Six-squared net to a cube

**Measurement**
- Use elapsed time (plan a party schedule)
- Estimate & measure using standard units & tools (length, weight, volume)

**Data Analysis & Probability**
- Collect, record, organize & display data (observe, measure, & survey; display on line plots, bar graphs)
- Predict outcomes of simple experiments (coin toss) & test it with objects (coins, spinners, dice)
- Discuss likelihood probability as certain or unlikely
- Analyze data (to make predictions, draw conclusions, answer questions & make decisions)

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**SCIENCE**

Do Scientific Investigations: OBSERVE, PREDICT, EXPERIMENT & VALIDATE

**Scientific Thinking & Practice**
- Pose a question
- Make a prediction based on:
  - Scientific laws (gravity) or
  - Cause & effect (light helps plants grow)
- Collect & analyze data & present findings

**Physical Science**
- Understand that light is a form of energy that travels in a straight line until it is reflected, refracted or absorbed
- Know that energy & its changes can be measured
- Describe properties of magnets

**Life Science**
- Know that living things adapt to their environment
- Classify plants & animals according to observable characteristics
- Describe harmful & beneficial effects that living things have on the environment (bark beetle)
- Know that some plants & animals have become extinct
- Describe nutrients needed by the human body (protein, vitamins)

**Earth & Space Science**
- Describe objects in the solar system (planets, sun) relationships (distances) & features (size)
- Observe movement of stars & constellations
- Know that telescopes help see distant objects
- Know that earth’s features are constantly changing (erosion, volcanos)
- Know that air takes up space & exerts force
- Identify parts of the water cycle & how water changes form one form to another (condensation, evaporation, precipitation)
- Know that fossils provide evidence & information about plants & animals that lived long ago